

Notes on a recently established darkling beetle (Coleoptera: Tenebrionidae) in Hawai‘i¹

G.A. SAMUELSON & F.G. HOWARTH²

Hawaii Biological Survey, Bishop Museum, 1525 Bernice Street, Honolulu, Hawai‘i 96817-2704,
USA; email: alsam@bishopmuseum.org

Strongylium cultellatum Mäklin, 1867

New state record

(Fig. 1)

This Asian species has turned up on O‘ahu but not yet from any of the other Hawaiian Islands. *Strongylium cultellatum* was described from Hong Kong and has been reported extensively from Japan, including the Ryukyu Islands, and Korea.

Interestingly, *S. cultellatum* has also been reported from Florida, marking the first record for the continental United States and North America; record: US: Florida: Dade Co., 25 May 2010, A.I. Derksen & K.M. Griffiths collectors, USDA (det. M.C. Thomas). Actually, many of the O‘ahu records precede the Florida record. Thomas & Okins (2011) state that *Strongylium* species are associated with fungus-infested dead wood and should not be an economic problem; they point out that the pathway used by this species to enter Florida is not known; also, they did not note that it was already established in Hawai‘i. Hawai‘i could be a possible intermediate location on the spread of the species to the continent. In another example, the cerambycid, *Sybra alternans* Wiedemann, a long-time adventive resident in the Hawaiian Islands, also eventually showed up in Florida in recent



Fig. 1. *Strongylium cultellatum* Mäklin: lateral-oblique view of living specimen in Honolulu, Hawai‘i. (Photo: F.G. Howarth).

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2. Present Address: Hawaii Department of Agriculture, Plant Pest Control Branch, 1428 S. King Street, Honolulu, Hawai‘i 96814, USA.

times; in this instance, examples were sent to BPBM for comparison and one of us (GAS) found that Hawaiian specimens of this species were identical to those collected from Homestead AFB in Florida. Thus, for *S. alternans*, the mode of entry to Florida could have been via military flights from O'ahu bases to Homestead.

Material examined. O'AHU: Kāne'ohe, 20 May 2006, in house, M. Chun collector (1 ex, first record of this species in Hawai'i, HDOA); Honolulu (Kalihi Val.) 120 m, 21°20.65'N; 157°51.6'W, 13–15 Nov 2007, 9 Jun 2008, 13 Jun 2008, 25 Jun 2009, 27 Sep 2009, 5 Jun 2011, all at light by F.G. Howarth collector, 6 ex (BPBM); same data but 19 Jun 2007, 1 ex (to W. Steiner for identification; deposited in NMNH), and 31 Aug 2012, 1 ex (HDOA).

Acknowledgments

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Literature Cited

- Chûjô, Michitaka & Lee, C.E.** 1993. Korean Tenebrionidae (Insecta, Coleoptera). *Esakia* **33**: 109–122. [Distribution table for region.]
- Thomas, M.C. & Okins, E.** 2011. An Asian species of *Strongylium* Kirby (Coleoptera: Tenebrionidae) established in south Florida, U.S.A. *Coleopterists Bulletin* **65**: 147–152. [This article keys all species of *Strongylium* reported for Florida and includes a dorsal habitus illustration of each species.]